

# DIFFERENTIAL PRESSURE FIRING HEAD ASSEMBLY

## **DESCRIPTION**

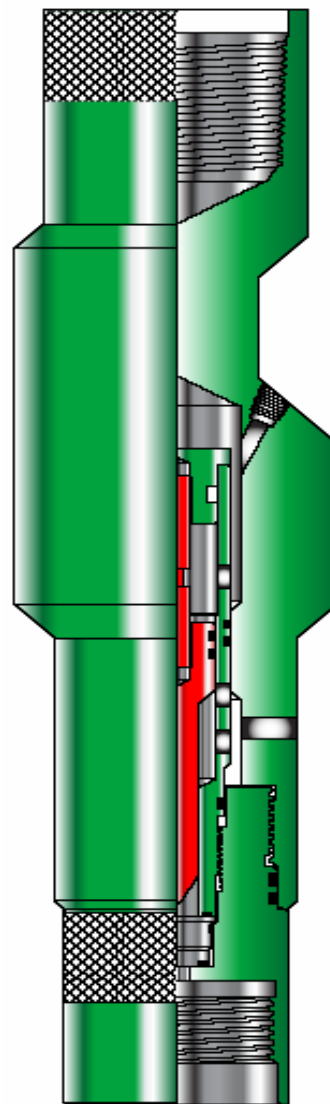
The GEODynamics 4-1/2 Differential Pressure Firing Head is used to initiate the detonation of the Tubing Conveyed Perforating (TCP) Gun. This is accomplished by creating a differential pressure between the shear device inside the firing head and the sump annulus. In order to accomplish this, the firing head is run in conjunction with the GEODynamics "X" Series Crossover Pressure Transfer (XPTA) System. The GEODynamics Annular Pressure Vent Assembly (APVA) is another tool that can be run with this configuration.

## **ADVANTAGES**

- Safe, economical, simple, and reliable
- Firing head is balanced while tripping into the well
- Ideal for highly deviated wells, horizontal wells, wells with heavy fluids
- Sand control and underbalancing perforating
- Uses industry standard initiators

## **OPERATION**

The firing head is initiated by applying pressure down the annulus from surface. The applied pressure enters the "X" Series Crossover and is diverted through the packer assembly down a capillary tube to the differential firing head. The applied pressure enters the firing head creating the differential pressure needed to shear the shear stud driving the firing pin into the initiator initiating the explosive train. Flow from the reservoir flows through the ported sub or the APVA to surface.



## **SPECIFICATIONS**

DESCRIPTION	
CONNECTION *	2-7/8 EUE
TOOL OD	4.50 in
MAXIMUM PRESSURE	10,000 psi
MAXIMUM TEMPERATURE	350 F
LENGTH	18.5 in
WEIGHT	46.0 lbs
PART NUMBER	11.DIFA.412.8EBB
REDRESS KIT	11.DIRK.412.9999

\* OTHER THREAD TYPES AVAILABLE UPON REQUEST